

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10580324"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L2	2	"6106245".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L3	2	"6032923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L4	2	"5367878".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L5	10	("5367878"   "5705018"   "6007309"   "6032923"   "6106245").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L6	77	("3381623"   "3803424"   "4115036"   "4453169"   "4498850"   "4938742"   "5078581"   "5096388"   "5176358"   "5180288"   "5192197"   "5499909"   "5725363"   "5759014"   "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16

L7	80	( "2403692"   "2975307"   "3304446"   "3381623"   "3414010"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4418886"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4581624"   "4651564"   "4654546"   "4722360"   "4756508"   "4821999"   "4898200"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5325880"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5822170"   "5836750"   "5863708"   "5901939"   "5911872"   "5954079"   "6106245"   "6179586"   "6182941"   "6184607"   "6192197"   "6215221"   "6240944"   "6288472").PN. OR ("6968862").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L8	554	(micropump or micro- pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L9	38	(micropump or micro- pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16

L10	84	{"20020067992"   "2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4756508"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192197"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5441597"   "5452878"   "5499909"   "5541465"   "5542821"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5836750"   "5863708"   "5901939"   "5911872"   "6106245"   "6179586"   "6184607"   "6215221"   "6450773"   "6508528"   "6520753"   "6579068").FN. OR ("6767190").URFN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L11	47	(micropump or micro-pump or mesopump or meso-pump or microvalve or micro-valve) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L12	837	STmicroelectronics.asn. and pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16

L13	752	STmicroelectronics.asn. and pump and voltage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L14	170	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
L15	1770	417/53.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L16	1786	257/706.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L17	585	257/e21.495.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L18	683	257/e23.08.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L19	84	["20020067992"   "2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4756508"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192197"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5441597"   "5452878"   "5499909"   "5541465"   "5542821"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5836750"   "5863708"   "5901939"   "5911872"   "6106245"   "6179586"   "6184607"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16

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L20	19	("20050283330"   "3264861"   "4206761"   "4377851"   "5665899"   "5693886"   "5836750"   "6106245"   "6179586"   "6184607"   "6374191"   "6432721"   "6568286"   "6644117"   "6649416"   "6729856"   "6758107"   "6767190").PN. OR ("7216048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L21	83	("2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4765608"   "4786472"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192197"   "5206557"   "5212993"   "5219278"   "5224843"   "5244537"   "5322258"   "5323999"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5798600"   "5836750"   "5863708"   "5901939"   "5911872"   "5961298"   "6106245"   "6179586"   "6184607"   "6184697"   "6215221"   "6382228").PN. OR ("6758107").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16

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		"5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5325880"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5822170"   "5836750"   "5863708"   "5901939"   "5911872"   "5954079"   "6106245"   "6179586"   "6182941"   "6184607"   "6192197"   "6215221"   "6240944"   "6288472").FN. OR ("6968862").URPN.				
L24	554	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L25	344	L24 and @<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L26	789	((micropump or micro-pump or pump) with substrate).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L27	527	L26 and @<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L28	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 18:16
L29	51	("3243181"   "3405977"   "3414331"   "3422411"   "3437335"   "3550964"   "3918706"   "4493548"   "4577854"   "4618292"   "4874273"   "5284179"   "5497987"   "5634636"   "5897097").FN. OR ("6032923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L30	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L31	1	"5705018".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L32	1	"6007309".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16

L33	80	("2403692"   "2975307"   "3304446"   "3381623"   "3414010"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4418886"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4581624"   "4651564"   "4654546"   "4722360"   "4756508"   "4821999"   "4898200"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5325880"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5822170"   "5836750"   "5863708"   "5901939"   "5911872"   "5954079"   "6106245"   "6179586"   "6182941"   "6184607"   "6192197"   "6215221"   "6240944"   "6288472").PN. OR ("6968862").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 18:16
L34	2	"6837476".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 18:16
S1	1	"10580324"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:27



S2	2	"6106245".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:30
S3	2	"6032923".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:41
S4	2	"5367878".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/24 16:42
S5	10	("5367878"   "5705018"   "6007309"   "6032923"   "6106245").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 17:10
S6	69	("3381623"   "3803424"   "4115036"   "4453169"   "4498850"   "4938742"   "5078581"   "5096388"   "5176358"   "5180288"   "5192197"   "5499909"   "5725363"   "5759014"   "5759015").PN. OR ("6106245").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 17:17
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S8	521	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:38
S9	35	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 17:39
S10	81	("20020067992"   "2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4756508"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192179"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5441597"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 18:23

		"5452878"   "5499909"   "5541465"   "5542821"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5836750"   "5863708"   "5901939"   "5911872"   "6106245"   "6179586"   "6184607"   "6215221"   "6450773"   "6508528"   "6520753"   "6579068").FN. OR ("6767190").URFN.				
S11	44	(micropump or micro-pump or mesopump or microvalve or micro-valve) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage and membrane and duct	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 18:31
S12	810	STmicroelectronics.asn. and pump	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:50
S13	728	STmicroelectronics.asn. and pump and voltage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S14	164	STmicroelectronics.asn. and pump and voltage and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 18:51
S15	1725	417/53.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:51
S16	1710	257/706.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
S17	378	257/e21.495.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/25 19:52
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S19	84	("20020067992"   "2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4756508"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192197"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5441597"   "5452878"   "5499909"   "5541465"   "5542821"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5836750"   "5863708"   "5901939"   "5911872"   "6106245"   "6179586"   "6184607"   "6215221"   "6450773"   "6508528"   "6520753"   "6579068").PN. OR ("6767190").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:11
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S21	83	("2403692"   "2975307"   "3304446"   "3381623"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4651564"   "4654546"   "4756508"   "4786472"   "4821999"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5192197"   "5206557"   "5212993"   "5219278"   "5224843"   "5244537"   "5322258"   "5323999"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5798600"   "5836750"   "5863708"   "5901939"   "5911872"   "5961298"   "6106245"   "6179586"   "6184607"   "6184697"   "6215221"   "6382228").PN. OR ("6758107").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 18:27
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S23	80	("2403692"   "2975307"   "3304446"   "3381623"   "3414010"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4418886"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4581624"   "4651564"   "4654546"   "4722360"   "4756508"   "4821999"   "4898200"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5325880"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5822170"   "5836750"   "5863708"   "5901939"   "5911872"   "5954079"   "6106245"   "6179586"   "6182941"   "6184607"   "6192197"   "6215221"   "6240944"   "6288472").PN. OR	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/20 19:17

		("6968862").URPN.				
S24	554	(micropump or micro-pump) and (cavity vacuum) and conduct\$4 and substrate and (dielectric insulat\$3) and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:23
S25	344	S24 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:24
S26	789	((micropump or micro-pump or pump) with substrate).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S27	527	S26 and @ad<"20031125"	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:37
S28	1	"6032923".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/21 12:42
S29	51	("3243181"   "3405977"   "3414331"   "3422411"   "3437335"   "3550964"   "3918706"   "4493548"   "4577854"   "4618292"   "4874273"   "5284179"   "5497987"   "5634636"   "5897097").FN. OR ("6032923").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:44
S30	1	"5367878".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:49
S31	1	"5705018".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51
S32	1	"6007309".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:51
S33	80	("2403692"   "2975307"   "3304444"   "3381623"   "3414010"   "3641373"   "3769531"   "3803424"   "3947644"   "4115036"   "4140936"   "4197737"   "4418886"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4581624"   "4651564"   "4654546"   "4722360"   "4756508"   "4821999"   "4898200"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/21 12:53

		"5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5322258"   "5323999"   "5325880"   "5441597"   "5452878"   "5499909"   "5541465"   "5552654"   "5571401"   "5642015"   "5683159"   "5725363"   "5759014"   "5759015"   "5822170"   "5836750"   "5863708"   "5901939"   "5911872"   "5954079"   "6106245"   "6179586"   "6182941"   "6184607"   "6192197"   "6215221"   "6240944"   "6288472").PN. OR ("6968862").URFN.				
S34	2	"6837476".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/21 14:10

5/ 21/ 2009 6:25:07 PM

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